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## PATENT ABSTRACTS OF JAPAN

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**B01J 23/58****B01D 53/94****// B01J 20/04**(21) Application number: **2000075736**(71) Applicant: **TOYOTA MOTOR CORP**(22) Date of filing: **17.03.00**(72) Inventor: **HARA NAOYUKI****(54) CATALYST FOR CLEANING EXHAUST GAS**

releasing is suppressed even at high temperature lean atmosphere.

**(57) Abstract**

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**PROBLEM TO BE SOLVED:** To provide a NO<sub>x</sub> occlusion/reduction type catalyst having sufficient occlusion capacity even at the high temperature region.

**SOLUTION:** The catalyst is constituted of a porous carrier 1 having a high specific surface area, a basic carrier 2 exposed in a form like island on the surface of the porous carrier 1 and more strong in basicity than the porous carrier 1, at least noble metal 3 deposited on the surface of the porous carrier 1 and at least NO<sub>x</sub> occlusion material 4 deposited on the surface of the basic carrier 2 exposed in the form like the island. Since the noble metal 3 deposited on the porous carrier 1 is not brought into contact with the basic carrier 2 and low in the probability contacting with the NO<sub>x</sub> occlusion material 4, the deterioration of activity is prevented, and in the NO<sub>x</sub> occlusion material 4 deposited on the basic carrier 2, the nitrate formed by the reaction with the NO<sub>x</sub> is stabilized and NO<sub>x</sub>

